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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=2; day=1; hr=14; min=25; sec=13; ms=172;]

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Application No: 10573704

Version No: 2.0

Input Set:

Output Set:

Started: 2010-02-01 12:37:13.497

Finished: 2010-02-01 12:37:18.438

Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 941 ms

Total Warnings: 21

Total Errors: 0

No. of SeqIDs Defined: 21

Actual SeqID Count: 21

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

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Total Warnings: 21
Total Errors: 0
No. of SeqIDs Defined: 21
Actual SeqID Count: 21

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Fleury, Sylvain
 Girard, Marc
 Roger, Marie-Gaelle
 Mouz, Nicolas
 Serres, Pierre-Francois

<120> New Soluble and Stabilized Trimeric Form of GP41 Polypeptides

<130> 122481

<140> 10573704

<141> 2010-02-01

<150> PCT/IB2004/002433

<151> 2004-07-29

<150> 60/490,946

<151> 2003-07-30

<160> 21

<170> PatentIn version 3.4

<210> 1

<211> 140

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

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Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp
 20 25 30

Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu
 35 40 45

Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile
 50 55 60

Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu
 65 70 75 80

Glu Gln Ile Trp Asn Asn Met Thr Trp Met Glu Trp Asp Arg Glu Ile

85

90

95

Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn
100 105 110

Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala
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Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu
130 135 140

<210> 2
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<213> Artificial Sequence

<220>
<223> Synthetic

<400> 2

Ser Gly Gly Arg Gly Gly Ser
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<210> 3
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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 4

Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala
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Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp
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<212> PRT
<213> Artificial sequence

<220>
<223> synthetic

<400> 5

Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Cys Ser Gly
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Lys Leu Ile Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser
20 25 30

<210> 6
<211> 36
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 6

Trp Asn Asn Met Thr Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr
1 5 10 15

Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu
20 25 30

Lys Asn Glu Gln
35

<210> 7
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<213> Artificial sequence

<220>
<223> Gp41

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 agaatcctgg ctgtggaaag atacctaaag gatcaacagc tcctggggat tgacggtagc 180
 agtggaggta gaggtggatc caatgctagt tggagtaata aatctctgga acagatttgg 240
 aatcacacga cctggatgga gtgggacaga gaaattaaca attacacaag cttatacac 300
 tccttaattg aagaatcgca aaaccagcaa gaaaagaatg aacaagaatt attggaatta 360
 gatctcgagc accaccacca ccaccactga 390

<210> 8
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 <212> PRT
 <213> Artificial sequence

<220>
 <223> Gp41

<400> 8

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
 1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
 20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
 35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Asp Gly Ser Ser Gly Gly Arg
 50 55 60

Gly Gly Ser Asn Ala Ser Trp Ser Asn Lys Ser Leu Glu Gln Ile Trp
 65 70 75 80

Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr
 85 90 95

Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys
 100 105 110

Asn Glu Gln Glu Leu Leu Glu Leu Asp Leu Glu His His His His His
 115 120 125

His

<210> 9

<211> 32

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 9

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32

<210> 10

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 10

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57

<210> 11

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 11

ggaatccagg atccaatgct agttggagta ataaatctct ggaa

44

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 12

gcccggtcgc agatctaatt ccaataattc ttgttcattc ttttc

45

<210> 13

<211> 411

<212> DNA

<213> Artificial Sequence

<220>

<223> GP41

<400> 13

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agaatcctgg ctgtggaaag atacctaaag gatcaacagc tcctggggat ttggggtagc    180
tctggaaaac tcattagcac cactgctgtg ccttggaatg ctagttggag taataaatct    240
ctggaacaga tttggaatca caccacctgg atggagtggg acagagaaat taacaattac    300
acaagcttaa tacactcctt aattgaagaa tcgcaaaacc agcaagaaaa gaatgaacaa    360
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<210> 14

<211> 137

<212> PRT

<213> Artificial Sequence

<220>

<223> GP41

<400> 14

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Val Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1              5              10              15
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Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20              25              30
```

```
Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35              40              45
```

```
Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Lys Leu
50              55              60
```

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Ile Ser Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser
65              70              75              80
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```
Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu
85              90              95
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Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln
100             105             110
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Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp
115 120 125

Ala Ser Leu Trp Asn Trp Phe Asn Ile
130 135

<210> 15
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 15

Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val Pro Trp
1 5 10

<210> 16
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 16

Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val
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Pro Trp Asn Ala Ser Trp Ser Asn Lys
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<210> 17
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 17

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu Glu
50 55 60

Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn
65 70 75 80

Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln
85 90 95

Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser
100 105 110

Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu Asp His His His His
115 120 125

His His
130

<210> 18
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 18

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu Glu
50 55 60

Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn
65 70 75 80

Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln
85 90 95

Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser
100 105 110

Leu Trp Asn Trp Phe Asn Ile Thr Asn Asp His His His His His His
115 120 125

<210> 19

<211> 136

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 19

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1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Gly Arg
50 55 60

Gly Gly Ser Ser Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu
65 70 75 80

Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile
85 90 95

Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu
100 105 110

Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp
115 120 125

Leu Asp His His His His His His

130

135

<210> 20

<211> 134

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 20

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
 1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
 20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
 35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Gly Arg
 50 55 60

Gly Gly Ser Ser Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu
 65 70 75 80

Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile
 85 90 95

Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu
 100 105 110

Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Asp
 115 120 125

His His His His His His
 130

<210> 21

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 21

Met Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr
1 5 10 15

Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg
20 25 30

Tyr Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu
35 40 45

Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile
50 55 60

Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn
65 70 75 80

Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala
85 90 95

Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu Asp His His His
100 105 110

His His His
115